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1-46 (canceled)

47. (currently amended) A projectile comprising a hard penetrating core and fragmenting soft core having a cavity therein to receive the hard penetrating core, wherein the hard penetrating core penetrates said fragmenting soft core upon impact; wherein the projectile is a partial fragmentation projectile, and wherein the hard penetrating core is made of a material that is harder than that of the fragmenting soft core and, as seen in the direction of the trajectory of the projectile, is arranged in front of said fragmenting soft core, wherein said fragmenting soft core and said hard penetrating core are completely surrounded by a jacket lying entirely on the periphery of the partial fragmentation projectile, wherein the shape of a rear of said hard penetrating core and the shape of the nose of said fragmenting soft core are harmonized with the desired fragmentation characteristics required for the soft projectile core by providing projectile, depending on the caliber and impact speed and the nature of the quarry, wherein a conical shape is provided for cleaving, a depression-shaped shape for mushrooming or a bell shape for the combined mushrooming and cleaving of the soft projectile core, depending on the caliber of the projectile and impact speed and nature of the quarry wherein the projectile is a partial fragmentation projectile.

48. (previously presented) A partial fragmentation projectile according to claim 47, wherein a nose of said fragmenting soft core has a recess which is arranged centered on the midline of the projectile.

49. (previously presented) A partial fragmentation projectile according to claim 48, wherein said recess in said fragmenting soft core is conical, depression-shaped or bell-shaped.

50. (previously presented) A partial fragmentation projectile according to claim 49, wherein said recess in said fragmenting soft core is conical recess having a tip angle, wherein the tip angle of the conical recess is between 30° and 90°.

51. (previously presented) A partial fragmentation projectile according to claim 48, wherein a cavity adjoins said recess in said fragmenting soft core, which is arranged centered on the midline of the projectile.

52. (previously presented) A partial fragmentation projectile according to claim 51, wherein said cavity extends inwards for not more than $\frac{1}{4}$ of the length of said fragmenting soft core of the projectile.

53. (previously presented) A partial fragmentation projectile according to claim 48, wherein said recess in said fragmenting soft core is surrounded by a circular annular surface and that this circular annular surface is perpendicular to the midline of the partial fragmentation projectile.

54. (previously presented) A partial fragmentation projectile according to claim 47, wherein the shape of the rear of said hard penetrating core is matched to the respective shape of the recess of fragmenting soft projectile core.

55. (previously presented) A partial fragmentation projectile according to claim 54, wherein the rear of said hard penetrating core matched to the nose of said fragmenting soft core is surrounded by a circular annular surface and that this circular annular surface is perpendicular to the midline of the partial fragmentation projectile.

56. (previously presented) A partial fragmentation projectile according to claim 47, wherein said hard penetrating core is made of lead free materials.

57. (previously presented) A partial fragmentation projectile according to claim 56, wherein the nose of said hard penetrating core is designed as a flat head or with a hole at a tip of said hard penetrating core.

58. (currently amended) A partial fragmentation projectile according to claim 47, wherein a tip of the projectile has a shape that provides a desired matched to required flight characteristic of the projectile characteristics.

59. (previously presented) A partial fragmentation projectile according to claim 58, further comprising a projectile cover in the form of a cap.

60. (previously presented) A partial fragmentation projectile according to claim 58, wherein the projectile has a solid tip.

61. (previously presented) A partial fragmentation projectile according to claim 60, wherein the solid tip has a shaft on the rear side which extends into the hard penetrating core.

62. (previously presented) A partial fragmentation projectile according to claim 60, wherein the projectile comprises a biodegradable plastic.

63. (previously presented) A partial fragmentation projectile according to claim 47, wherein the projectile has a sharp edge.

64. (previously presented) A partial fragmentation projectile according to claim 63, wherein the sharp edge is formed by a crimping in the jacket of the projectile at a transition point between the hard penetrating core and said fragmenting soft core.

65. (previously presented) A partial fragmentation projectile according to claim 47, wherein the thickness of a wall of the jacket of the projectile decreases from a rear of the projectile to a sharp edge thereof.

66. (previously presented) A partial fragmentation projectile according to claim 47, wherein the thickness of a wall of projectile jacket in a narrowing part of the projectile is less than in a cylindrical part.

67. (previously presented) A partial fragmentation projectile according to claim 47, wherein the projectile consists of a lead-free material.

68. (previously presented) A partial fragmentation projectile according to claim 67, wherein said lead free material is selected from the group consisting of a plastic, a synthetic resin, and a metallic material selected from the group consisting of copper, tin, zinc, iron, tungsten, silver, aluminum, tantalum, vanadium and an alloy of the metallic materials.

69. (currently amended) A partial fragmentation projectile comprising;

a penetrator core having a rear end having a shape;

a soft core made of a softer material than said penetrator core; and

a jacket in contact with said rear end of said penetrator core and said soft core;

wherein said soft core has a nose having a recess which is matched to the shape of said rear end of said penetrator at the nose of said soft core to hold said rear end of said penetrator core, wherein at least one of a conical shape is provided for cleaving, a depression-shape is provided for mushrooming or a bell shape is provided for the combined mushrooming and cleaving of the soft projectile core.

70. (previously presented) A partial fragmentation projectile according to claim 69, wherein said recess is arranged centered on the midline of the projectile.

71. (previously presented) The partial fragmentation projectile of claim 69, wherein said penetrator core has a hollow tip at an end opposite said rear.

72. (previously presented) The partial fragmentation projectile of claim 71, wherein a solid tip is positioned in said hollow tip of said penetrator core.

73. (previously presented) The partial fragmentation projectile of claim 69, wherein a crimping is pressed into said jacket at a point where a part of said rear of said penetrator core projects from said soft core.

74. (previously presented) A partial fragmentation projectile according to claim 47, wherein said penetrator core separates from said fragmenting soft core upon said impact.

75. (previously presented) The partial fragmentation projectile of claim 69, wherein a cavity is present in a bore underneath said rear of said penetrator core.

76. (previously presented) The partial fragmentation projectile of claim 70, wherein a cavity is present in a bore underneath said rear of said penetrator core.

77. (previously presented) The partial fragmentation projectile of claim 75, wherein said cavity is tapered.

78. (previously presented) The partial fragmentation projectile of claim 75, wherein said cavity is narrower than said recess.

79. (previously presented) A partial fragmentation projectile according to claim 71,

wherein said recess is arranged centered on the midline of the projectile.

80. (previously presented) The partial fragmentation projectile of claim 71, wherein said penetrator core has a hollow tip at an end opposite said rear.

81. (previously presented) The partial fragmentation projectile of claim 80, wherein a solid tip is positioned in said hollow tip of said penetrator core.

82. (previously presented) The partial fragmentation projectile of claim 69, wherein a crimping is pressed into said jacket.

83. (previously presented) The partial fragmentation projectile of claim 69, wherein said rear of said penetrator core is conical.

84. (currently amended) A partial fragmentation projectile comprising a hard penetrating core and fragmenting soft core having a cavity therein to receive the hard penetrating core, wherein the hard penetrating core penetrates said fragmenting soft core upon impact; wherein the hard penetrating core is made of a material that is harder than that of the fragmenting soft core and, as seen in the direction of the trajectory of the projectile, is arranged in front of said fragmenting soft core, wherein said fragmenting soft core and said hard penetrating core are completely surrounded by a jacket lying entirely on the periphery of the partial fragmentation projectile, wherein the shape of a rear of said hard penetrating core and the shape of the nose of said fragmenting soft core are harmonized with the fragmentation characteristics required for the projectile, depending on the caliber and impact speed and the nature of the quarry, wherein the shape of the rear of said hard penetrating core is matched to the respective shape of the recess of fragmenting soft projectile core and wherein the rear of said hard penetrating core matched to the nose of said fragmenting soft core is surrounded by a circular annular surface and that this circular annular surface is perpendicular to the midline of the partial fragmentation projectile.